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CENTRAL INTELLIGENCE AGENCY

INFORMATION REPORT

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SUBJECT	Chrudimka River Dam at Krizanovice	DATE DISTR.	27 January 1954
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1. The construction of the Chrudimka River dam at Krizanovice (0 50/M 77) was begun in 1948 by Vodostavba, National Enterprise, Prague. In 1948 and 1949, the labor force consisted mainly of prisoners. The dam was finished in 1952 and by December 1952 it was to be flooded. Work was very well organized and the plan was fulfilled 100 %.

2. The dam, which is 250 meters long, is situated at the point where the road from Krizanovice to Hradiste crosses the Chrudimka River. At its base it is about 40 meters thick. The surrounding terrain is rocky, and after blasting it serves, in part, to provide embankments. The height of the dam is 30 meters.

3. The artificial lake takes up the area from the dam to the town of Mezisveti, southwest of Krizanovice. Its average width will be about 500 meters. In 1952, companies of prisoners demolished some isolated houses which were to be below the water surface.

4. A small power station has been built on the northwest side of the dam. The building is a ferro-concrete structure measuring 30 by 15 meters. It will probably have one turbine.

5. A section of the Chrudimka River about 100 meters from the dam has been "regulated."

6. A sloping water tunnel runs from the dam to the town of Pracov in a southeasterly direction, where the power station and the water level control tower are situated. The tunnel is 3,800 meters long and the difference between the levels at the two ends is 56 meters. It is of reinforced concrete and round in shape; it was poured on the site. The diameter of the tunnel is 250 cm. and the thickness of the walls is from 35 to 40 cm. The tunnel runs above ground for about 400 meters from the dam and is then taken underground. It runs a further 900 meters through the rocky hills until it reaches an iron and concrete pipe. The tunnel was completed by August 1952.

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7. A level control tower is situated below the southern edge of the town of Pracov on high ground. The tower is used to lessen the pressure of the water, for the speed of the falling water is so great that it might wear out the turbine. The tower is a ferro-concrete structure 56 meters high and with an internal diameter of 10 meters. A gallery runs around the tower and there is an elevator inside. The tower is not closed on the top and could, if necessary, also regulate the water pressure by atmospheric pressure. The pipeline which runs from the tower to the turbine in the power station comes from the foot of the tower. It is believed that the pipeline has a generator which makes it possible to regulate the water in the tower and, if necessary, to close the pipeline. This regulating generator is believed to be in a small building at the foot of the tower. The generator and pipeline were assembled by workers from the Vitkovice Klement Gottwald Iron Works.

8. The pipeline from the foot of the tower is about 60 to 65 meters long, of concrete. It measures 250 cm. internally and becomes narrower as it gets nearer to the turbine. The difference of level between the turbine at the power station and the foot of the tower is 50 meters. With an average filling, the total waterhead should therefore be 90 meters.

9. The turbine is a product of the V. I. Lenin Works and weighs 40 tons. Fitters came from Pilsen to install the turbine.

10. The power station is situated about 40 meters below the tower on the western bank of the Chrudimka River. The building is of concrete, faced with brick, measures 60 by 40 meters and is about 20 meters high. The building is situated about 4 or 5 meters above the Chrudimka River.

11. About 400 or 500 meters beyond the power station building, in front of the Svidnice mill, a smaller dam was constructed to utilize water flowing from the first power station. This dam is about 7 meters high and 200 meters long. The weir is 7 meters at this point and is in the middle of the embankment. The weir and locks are of concrete and the whole construction indicates that a smaller power station is to be built at this point.

12. Cables were laid until 1952. The power station will probably serve the whole district. Construction was finished by autumn 1952 and the tower and power station were being plastered over with green rough cast, so that they were relatively well concealed in the surrounding terrain.

13. After completion of work on this site the building machinery and auxiliary material were moved to Lipno for the construction of the dam there.

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